

I/WE CLAIM:

1. A method for forming a dual power belt in a press having a heatable first mold half and a heatable second mold half, the method comprising the steps of:
 - 5 providing first teeth-forming recesses in said first mold half and providing second teeth-forming recesses in said second mold half;
building a belt slab comprising tooth forming material positioned between first and second layers of tooth facing fabric;
positioning said belt slab between said first and second mold halves; and,
 - 10 forcing said tooth forming material into said tooth-forming recesses in said first and second mold halves whereby said first layer of facing fabric is pushed into said teeth-forming recesses in said first mold half ahead of said tooth stock material and said second layer of facing fabric is pushed into said teeth-forming recesses in said second mold half ahead of said tooth stock material.
- 15 2. The method of claim 1 wherein the step of building a belt slab further comprises:
positioning a cord layer between said first and second layers of tooth facing fabric.
3. The method of claim 1 wherein the step of building a belt slab further comprises:
20 positioning a barrier layer between said first and second layers of tooth facing fabric.
4. The method of claim 1 wherein the step of building a belt slab further comprises:
positioning a cord layer between said first and second layers of tooth facing fabric and adjacent to said first layer of tooth facing fabric; and,
- 25 positioning a barrier layer between said first and second layers of tooth facing fabric and adjacent to said cord layer.
5. The method of claim 4 wherein the step of forcing said tooth stock material into said teeth-forming recesses in said first and second mold halves comprises:

forcing a first portion of said tooth stock material to flow through said barrier layer and through said cord layer and into said first power teeth-forming recesses; and,

forcing a second portion of said tooth stock material to flow into said second power teeth-forming recesses without passing through said cord layer.

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6. The method of claim 1 wherein said step of building a belt slab comprises forming said belt slab into a cylinder prior to said step of positioning said belt slab.

7. The method of claim 1 further comprising the step of:

10 providing means for accommodating excess tooth stock material.

8. The method of claim 7 wherein said step of providing means for accommodating excess tooth stock material includes providing an edge channel in said first mold half.

15 9. The method of claim 7 wherein said step of providing means for accommodating excess tooth stock material includes providing a waste pocket in said first mold half.

10. A method for forming a dual power belt comprising the steps of:

20 building a belt slab comprising tooth stock material positioned between first and second layers of tooth facing fabric;

forming a first set of power drive teeth on a first side of said belt slab wherein said first set of power drive teeth comprise said first layer of tooth facing fabric; and,

forming a second set of power drive teeth on a second side of said belt slab wherein said second set of power drive teeth comprise said second layer of tooth facing fabric.

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11. A method for forming a dual power belt comprising the steps of:

providing first teeth-forming recesses in said first mold half and providing second teeth-forming recesses in said second mold half;

providing waste pocket in said first mold half;

building a belt slab comprising first and second layers of tooth facing fabric and a tensile member and tooth forming material positioned between said first and second layers of tooth facing fabric, said tooth forming material having a volume sufficient to fill said first and second teeth-forming recesses and generating excess material;

- 5 positioning said belt slab between said first and second mold halves; and,
 forcing said tooth forming material into said tooth-forming recesses in said first and second mold halves by decreasing a distance therebetween to a predetermined distance whereby said first layer of facing fabric is pushed into said teeth-forming recesses in said first mold half ahead of said tooth forming material and said second layer of facing fabric is pushed into said
10 teeth-forming recesses in said second mold half ahead of said tooth forming material; and
 accommodating said excess material in said waste pocket.

12. A dual power belt formed according to the method of claim 1.

- 15 13. A method for forming a synchronous drive belt comprising the steps of:
 providing first teeth-forming recesses in said first mold half;
 providing a second mold half;
 providing waste pocket in said first mold half;
 building a belt slab comprising first and second layers of tooth facing fabric and a tensile
20 member and tooth forming material positioned between said first and second layers of tooth facing fabric, said tooth forming material having a volume sufficient to fill said first and second teeth-forming recesses and generating excess material;
 positioning said belt slab between said first and second mold halves; and,
 forcing said tooth forming material into said tooth-forming recesses in said first mold half
25 by decreasing a distance between said first and second mold halves to a predetermined distance whereby said first layer of facing fabric is pushed into said teeth-forming recesses in said first mold half ahead of said tooth forming material; and
 accommodating said excess material in said waste pocket.

14. The method of claim 13, further comprising the steps of:
deflashing said excess material after said belt has cured.

15. The method of claim 14, wherein the step of deflashing said excess material after
5 said belt has cured includes grinding said waste pocket.

16. The method of claim 14, wherein the step of deflashing said excess material after
said belt has cured includes millig said waste pocket.